

The y -intercept of the line $3x + 17 + y = 7 - 2x + 13y$ is

- A. 0
- B. $\frac{-7}{3}$
- C. $\frac{5}{6}$ ✓
- D. $\frac{5}{12}$

Describe the lines defined by the following equations.

- i) $3x + 4y = 0$ ii) $3x + 4 = 0$ iii) $4y = 0$ iv) $3x + 4y - 36 = 0$ v)
 $x - y = 0$

Find the slope, and the x - and y -intercepts of the line whose equation is $10y = 2x - 7$.

Find an equation of the line that has slope $\frac{2}{7}$ and passes through the points $A(7,1)$.

If the points $(1,2)$ and $(2,1)$ are on the line $ax + by = 5$, then

- A. $a = 0$
- B. $a < b$
- C. $b < 0$
- D. $a = b$ ✓

A line $y = mx + b$ passes through the points $(2,0)$ and $(0,3)$. Find m and b .

Find an equation of the line passing through the point $(1,2)$ and intersecting the y -axis at $y = 3$.

Find an equation of a line passing through the point $(1,2)$ with slope -1 .

Find the equation of a line passing through the point $(2,5)$ and perpendicular to the line passing through the points $(1,2)$ and $(6,5)$.

Find an equation of the line that passes through the points $(2, -3)$ and $(2, -5)$.